



Indiana Department of Education

Dr. Katie Jenner, Secretary of Education

To: State Board of Education

From: Office of Teaching and Learning

Date: June 8, 2022

Subject: Next Level Programs of Study (NLPS) Courses for Quantitative Reasoning (QR)
Science Credit

Pursuant to 511 IAC 6-7.1-6, for the Core 40 Diploma, Academic Honors Diploma (AHD), and Technical Honors Diploma (THD), students must take a mathematics course or a QR (applied mathematics) course each year they are enrolled in high school. Students must also earn two credits in a mathematics course or a QR course during their junior or senior year.

Pursuant to 511 IAC 6-7.1-5, the Indiana State Board of Education (SBOE) adopted revised rules regarding science requirements for the Core 40 curriculum diploma. To earn a Core 40 Diploma, science credits must include the following: A) Two (2) credits in biology. B) Two (2) credits in chemistry, physics, or integrated chemistry-physics. C) Two (2) additional credits in Core 40 science courses.

IDOE requests the State Board of Education's consideration and approval of these NLPS courses for science and QR courses for Core 40/Academic Honors/Technical Honors credit as recommended by Indiana educator committees. The courses listed here are in addition to those already approved for QR and science credit:

QR Courses:

- 7100 Smart Manufacturing Systems
- 7105 Precision Machining Fundamentals
- 7107 Advanced Precision Machining
- 7112 Agriculture Structures Fabrication and Designs
- 7119 Advanced Electrical
- 7167 Pharmacy Tech
- 7183 Principles of Computing
- 7184 Software Development
- 7185 Website and Database Development
- 7197 BIM Architecture
- 7200 Fundamentals of Electricity and Motors
- 7202 Manufacturing Principles and Design
- 7218 Aviation Capstone Management



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- 7219 Precision Machining Capstone
- 7221 Diesel Services Capstone
- 7222 Smart Manufacturing Capstone
- 7223 Mechanical Design Capstone
- 7224 Industrial Automation and Robotics Capstone
- 7228 Agriculture Mechanization and Technology Capstone
- 7234 Landscape Management
- 7238 Agribusiness Capstone
- 7242 Construction Trades Capstone
- 7244 HVAC Capstone
- 7262 Accounting Capstone
- 7260 Industrial Electrical Capstone
- 7261 Industrial Maintenance Capstone
- 7263 Construction Trade Electrical Capstone
- 7265 Finance and Investment Capstone
- 7297 Architecture, Engineering and Construction
- 7351 Topics in Computer Science
- 7352 Computer Science
- 7361 Electronic Fundamentals
- 7362 Electronics and Computer Technology Capstone

Science Courses:

- 7113 Crop Management
- 7167 Pharmacy Tech
- 7170 Nutrition Planning and Therapy
- 7230 Agriculture Biotechnology Capstone
- 7232 Horticulture Capstone
- 7270 Forestry and Wildlife Management
- 7271 Soil and Water Management
- 7321 Kinesiology
- 7351 Topics in Computer Science
- 7352 Computer Science